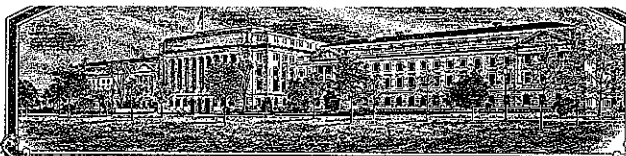


No.

9800160



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

NSH Research Foundation

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 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3367, 3368, 3369, 3370, 3371, 3372, 3373, 3374, 3375, 3376, 3377, 3378, 3379, 3380, 3381, 3382, 3383, 3384, 3385, 3386, 3387, 3388, 3389, 3390, 3391, 3392, 3393, 3394, 3395, 3396, 3397, 3398, 3399, 3400, 3401, 3402, 3403, 3404, 3405, 3406, 3407, 3408, 3409, 3410, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3423, 3424, 3425, 3426, 3427, 3428, 3429, 3430, 3431, 3432, 3433, 3434, 3435, 3436, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3450, 3451, 3452, 3453, 3454, 3455, 3456, 3457, 3458, 3459, 3460, 3461, 3462, 3463, 346

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

<p>1. NAME OF OWNER</p> <p>NDSU Research Foundation</p>		<p>2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME</p> <p>ND91-2721</p>	<p>3. VARIETY NAME</p> <p>'Jim'</p>
<p>4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)</p> <p>C/O Executive Director PO Box 5002 1735 NDSU Research Park Drive Fargo, ND 58105-5002</p>		<p>5. TELEPHONE (include area code)</p> <p>(701) 231-8931</p>	<p>FOR OFFICIAL USE ONLY</p> <p>PVPO NUMBER</p> <p>009800160</p> <p>FILING DATE</p> <p>3/12/1998</p>
<p>7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)</p> <p>501 (C) (3) Corporation</p>		<p>6. FAX (include area code)</p> <p>(701) 231-6661</p>	
<p>8. IF INCORPORATED, GIVE STATE OF INCORPORATION</p> <p>North Dakota</p>		<p>9. DATE OF INCORPORATION</p> <p>May, 1989</p>	
<p>10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Theodore C. Helms Dept. of Plant Sciences North Dakota State University PO Box 5051 Fargo, ND 58105-5051</p> </div> <div style="width: 45%;"> <p>Dale Zetocha NDSU Research Foundation PO Box 5002 1735 NDSU Research Park Drive Fargo, ND 58105-5002</p> </div> </div>		<p>FILING AND EXAMINATION FEES:</p> <p>\$ 2,450.00</p> <p>DATE 3/12/1998</p> <p>CERTIFICATION FEE:</p> <p>\$ 432.00</p> <p>DATE 7/12/04</p>	
<p>11. TELEPHONE (include area code)</p> <p>701-231-8136</p>	<p>12. FAX (include area code)</p> <p>701-231-8474</p>	<p>13. E-MAIL</p> <p>ted.helms@ndsu.nodak.edu dale.zetocha@ndsu.nodak.edu</p>	
<p>14. CROP KIND (Common Name)</p> <p>Soybean</p>		<p>15. GENUS AND SPECIES NAME OF CROP</p> <p>Glycine max</p>	
<p>16. FAMILY NAME (Botanical)</p> <p>Leguminosae</p>		<p>17. IS THE VARIETY A FIRST GENERATION HYBRID?</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	
<p>18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)</p> <p>a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety</p> <p>b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness</p> <p>c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety</p> <p>d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional)</p> <p>e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership</p> <p>f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)</p> <p>g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,662), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)</p>		<p>19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act</p> <p><input checked="" type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input type="checkbox"/> NO (If "no", go to item 22)</p> <p>20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED</p> <p>21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.</p> <p><input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED</p> <p>(If additional explanation is necessary, please use the space indicated on the reverse.)</p>	
<p>22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)</p>		<p>23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)</p>	
<p>24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.</p> <p>The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.</p> <p>Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.</p>			
<p>SIGNATURE OF OWNER</p> <p>Dale Zetocha</p>		<p>SIGNATURE OF OWNER</p>	
<p>NAME (Please print or type)</p> <p>Dale Zetocha</p>		<p>NAME (Please print or type)</p>	
<p>CAPACITY OR TITLE</p> <p>Executive Director NDSU Research Foundation</p>	<p>DATE</p> <p>6/11/04</p>	<p>CAPACITY OR TITLE</p>	<p>DATE</p>

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652-(\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs: Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

U.S.A. release date: February 20, 1998.

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (02-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of ST-470, which are obsolete.

Exhibit A

Origin and Breeding History of the Variety JIM

Jim, tested as ND no., 91-2721, was derived from the cross of M81-18/KG 20, made in 1987. M81-18 is an experimental line developed by the University of Minnesota, St. Paul, MN that was never released as a named cultivar. The pedigree of M81-18 is 'Evans'/ M65-442. M65-442 has the pedigree 'Anoka'/ 'Amsoy'. KG20 is a cultivar that was available commercially and developed by King Agro, a division of Kinggroup, Inc., Chatham, Ontario. The cross was made in the summer of 1987 at Fargo, ND. The F_1 plant was grown in the 1987-1988 glasshouse in Fargo, ND. The F_2 seed was grown in the summer of 1988 and advanced to the F_3 generation by the single-pod bulk method. The F_3 population was grown in the 1988-1989 Chile winter nursery and advanced to the F_4 generation by the single-pod bulk method. The F_4 population was grown at Fargo, ND in the summer of 1989. The F_5 population was grown in Fargo, ND in the summer of 1990. F_5 plants from the segregating population were individually threshed in the fall of 1990 and $F_{5,6}$ plant-rows were selected in 1991. ND91-2721 was first tested in replicated yield trials in 1992. Jim was selected for early maturity, high yield, and lodging resistance. Jim was evaluated in the Uniform Regional Soybean Tests: Northern States as a Maturity Group 00 experimental line from 1995 to 1997. Individual $F_{5,9}$ plants were threshed in 1994 and 88 single-plant selections were evaluated for uniformity in the summer of 1995 in Fargo and Prosper, ND. These 88 purification rows were individually harvested and bulked after evaluation of hilum color, plant maturity, flower color, plant height, pubescence color, seed coat luster, and pod color. Breeder seed of ND91-2721 was increased in the summer of 1996. In the summer of

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1997 the Foundation seed of ND91-2721 was increased at Casselton and Carrington, ND. Jim was released Feb. 20, 1998 as an F₁₃ generation pure line soybean cultivar. Variants that include up to 0.2% buff hila, 0.2% grey hila, 0.2% brown hila, 0.2% tawny pubescence, 0.2% white flower color and 0.3% tan pods are considered within normal variation for the cultivar Jim. Jim has been observed to be uniform and stable for a period of three years for the characteristics described within the application.

Exhibit B**Novelty Statement**

1. Jim was developed primarily for early maturity, high yield, and lodging resistance.
2. KG 20 is the most similar variety to Jim. Jim has purple flowers, grey pubescence, brown pods, and yellow hila. KG 20 has purple flowers, tawny pubescence, brown pods and yellow hila.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT C
(Soybean)**

**OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (*Glycine max* (L.) Merr.)**

NAME OF APPLICANT(S) <i>NDSU Research Foundation</i>	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) <i>1735 NDSU Research Park Drive</i>	PVPO NUMBER <i>009800160</i>
<i>P.O. Box 5002</i>	VARIETY NAME <i>'Jim' (per applicant's authorization 6/15/04)</i>
<i>Fargo, ND 58105-5002</i>	TEMPORARY OR EXPERIMENTAL DESIGNATION <i>NP91-2721 (6/15/2004)</i>

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in the first box (e.g.

9	9	9
---	---	---

 or

0	9
---	---

) when number is either 99 or less or 9 or less respectively. Data for quantitative

plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used:

Please answer all questions for your variety; lack of response may delay progress of your application.

A. MORPHOLOGY**Seed Shape:**

- | | |
|---|--|
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 30px; text-align: center;">3</div> <p>1 = Spherical
(L/W, L/T, and T/W ratios < 1.2)</p> <p>3 = Elongate
(L/T ratio > 1.2; T/W ratio < 1.2)</p> | <p>2 = Spherical-Flattened
(L/W ratio > 1.2; L/T ratio < 1.2)</p> <p>4 = Elongate-Flattened
(L/T ratio > 1.2; T/W ratio > 1.2)</p> |
|---|--|

Seed Coat Color:

- | | | | | |
|---|------------------|------------------|------------------|---|
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 30px; text-align: center;">1</div> <p>1 = Yellow</p> | <p>2 = Green</p> | <p>3 = Brown</p> | <p>4 = Black</p> | <p>5 = Other
(Please Specify) _____</p> |
|---|------------------|------------------|------------------|---|

Seed Coat Luster:

- | | |
|---|------------------|
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 30px; text-align: center;">1</div> <p>1 = Dull</p> | <p>2 = Shiny</p> |
|---|------------------|

Seed Size:

1	7
---	---

 grams/100 seeds

Hilum Color:

- | | | | | |
|---|--|------------------|-----------------|----------------------------|
| <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 30px; text-align: center;">2</div> <p>1 = Buff
6 = Black</p> | <p>2 = Yellow
7 = Other (Please Specify) _____</p> | <p>3 = Brown</p> | <p>4 = Gray</p> | <p>5 = Imperfect Black</p> |
|---|--|------------------|-----------------|----------------------------|

A. MORPHOLOGY (Continued)

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Cotyledon Color:

☐ 1 = Yellow 2 = Green

Seed Protein Peroxidase Activity:

☐ 1 = Low 2 = High

Hypocotyl Color:

<input type="checkbox"/> 1 = Green ('Evans' or 'Davis')	<input type="checkbox"/> 2 = Green with Bronze Bands below Cotyledons ('Woodworth' or 'Tracy')	<input type="checkbox"/> 3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71')	<input type="checkbox"/> 4 = Dark Purple extending to unifoliate leaves ('Hodgson', 'Coker', or 'Hampton 266A')
--	--	---	---

Leaflet Shape:

☐ 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other (Please Specify) _____

Flower Color:

☐ 1 = White 2 = Purple 3 = White with a Purple Throat

Pod Color:

☐ 1 = Tan 2 = Brown 3 = Black

Pubescence Color:

☐ 1 = Gray 2 = Brown (Tawny) 3 = Light Tawny

Plant Habit:

☐ 1 = Determinate 2 = Semi - Determinate 3 = Indeterminate 4 = Intermediate

Maturity Group:

<input type="checkbox"/> 0	<input type="checkbox"/> 2	1 = 000	2 = 00	3 = 0	4 = I	5 = II
		6 = III	7 = IV	8 = V	9 = VI	10 = VII
		11 = VIII	12 = IX	13 = X	14 = XI	15 = XII

Maturity Subgroup:

☐ 7 Please enter a value from 0 - 9

B. DISEASE REACTIONS

0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

Bacterial

☐ 0 Bacterial Pustule (*Xanthomonas campestris* pv. *glycines* (Nakano) Dye)

☐ 0 Bacterial Blight (*Pseudomonas syringae* pv. *glycinea* (Coerper) Young, Dye, & Wilkie)

☐ 0 Wildfire Blight (*Pseudomonas syringae* pv. *tabaci* (Wolf & Foster) Young, Dye, & Wilkie)

B. DISEASE REACTIONS (Continued)

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Fungal

☐ Brown Spot (*Septoria glycines* Hemmi)Frogeye Leaf Spot (*Cercospora sojina* Hara)☐ race 1☐ race 2☐ race 3☐ race 4☐ race 5☐ race 6☐ Other (Please Specify) _____☐ Target Spot (*Corynespora cassiicola* (Berk. & Curt.) Wei)☐ Downey Mildew (*Peronospora trifoliorum* var. *manchurica* (Naum.) Syd. ex Gäum)☐ Powdery Mildew (*Microsphaera diffusa* Cke. & Pk.)☐ Brown Stem Rot (*Phialophora gregata* (Allington & Chamberlain) W. Gams.)☐ Stem Canker (*Diaporthe phaseolorum* (Cke. & Ell.) Sacc. var. *caulivora* Athow & Caldwell)☐ Pod and Stem Blight (*Diaporthe phaseolorum* (Cke. & Ell.) Sacc. var. *sojae* (Lehman) Wehm.)☐ Purple Seed Stain (*Cercospora kikuchii* (T. Matsu. & Tomoyasu) Gardener)☐ Rhizoctonia Root Rot (*Rhizoctonia solani* Kühn)Phytophthora Root Rot (*Phytophthora megasperma* Drechs. f. sp. *glycinea* (Kuan & Erwin))☐ race 1☐ race 8☐ race 15☐ race 22☐ race 2☐ race 9☐ race 16☐ race 23☐ race 3☐ race 10☐ race 17☐ race 24☐ race 4☐ race 11☐ race 18☐ race 25☐ race 5☐ race 12☐ race 19☐ race 26☐ race 6☐ race 13☐ race 20☐ Other (Please Specify) _____☐ race 7☐ race 14☐ race 21☐ Bud Blight (Tobacco Ringspot Virus)☐ Yellow Mosaic (Bean Yellow Mosaic Virus)

B. DISEASE REACTIONS (Continued) 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

☐ Cowpea Mosaic (Cowpea Chlorotic Virus)

☐ Pod Mottle (Bean Pod Mottle Virus)

☐ Seed Mottle (Soybean Mosaic Virus)

Nematode

Soybean Cyst Nematode (*Heterodera glycines* Ichinohe)

☐ race 1

☐ race 4

☐ race 9

☐ race 2

☐ race 5

☐ race 14

☐ race 3

☐ race 6

☐ Other (Please Specify) _____

☐ Lance Nematode (*Hoplolaimus columbus* Sher)

☐ Southern Root Knot Nematode (*Meloidogyne incognita* (Kofoid & White) Chitwood)

☐ Northern Root Knot Nematode (*Meloidogyne hapla* Chitwood)

☐ Peanut Root Knot Nematode (*Meloidogyne arenaria* (Neal) Chitwood)

☐ Reniform Nematode (*Rotylenchus reniformus* Linwood & Olivera)

☐ Javanese Nematode (*Meloidogyne javanica* (Treub) Chitwood)

☐ Other Nematode (Please Specify) _____

C. PHYSIOLOGICAL RESPONSES 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

☒ Iron Chlorosis on Calcareous Soil.

☐ Phosphorus

☐ Other (Please Specify) _____

☐ Boron

☐ Aluminum

☐ Salt

☐ Drought

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D. INSECT REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

☐ Mexican Bean Beetle (*Epilachna varivestis* Mulsant)☐ Potato Leaf Hopper (*Empoasca fabae* (Harris))☐ Other (Please Specify) _____**E. HERBICIDE REACTIONS**

0 = Not Tested

1 = Susceptible

2 = Resistant

☐ Metribuzin☐ Bentazone☐ Sulfonylurea☐ Glyphosate☐ Glufosinate☐ Pendimethalin☐ Other (Please Specify) _____**F. TRANSGENIC COMPOSITION**

Has the development of the subject variety included the insertion of genetic material from an organism other than a soybean, or, the removal of genetic material from the application variety?

If yes, please complete the following information requests*. Use additional pages if necessary.

☐

YES

☒

NO

1. Please state the vector's name:

2. Please state the vector components:

3. Please describe the genetic material successfully transferred into the subject variety:

4. Please describe the insertion protocol:

* A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS

Please describe any biochemical information here, which you believe will be helpful in further describing the subject variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

9800160

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100 SEEDS	NO. SEEDS/POD
				CM Width	CM Length	% Protein	% Oil		
Submitted Jim	113	1.4	76	8.8	5.9	41.1	19.8	17.3	2.9
Name of Similar Variety McCall	112	1.4	79	8.3	5.8	40.9	20.1	15.4	2.4

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A₂ in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

H. COMMENTS

North Dakota State Univ.
2/12/98
Doykama

Alcohol Dehydrogenase
(A0H)

KyPur H₂O
FS-5080
Add

Supco

ND9/-
2721

M81-18

McCall

ND9/-
2735

#4

9800160

North Dakota State Univ.
Bismarck 2/12/98

Malic Enzyme

APU 111
FS-5080

amdi

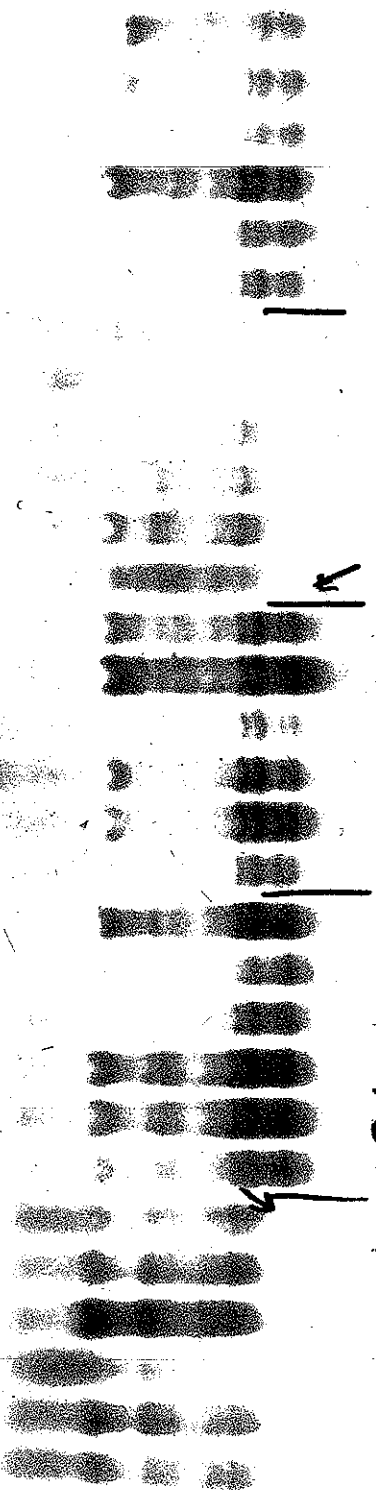
ND91-
2735

McCall

M81-18

ND91-
2721 X6

dego X6



#3

9804100

North Dakota State Univ.
2/12/98

Longhorns

Sigco X6

ND91-2721
x6

Enzyme

M81-18
x6

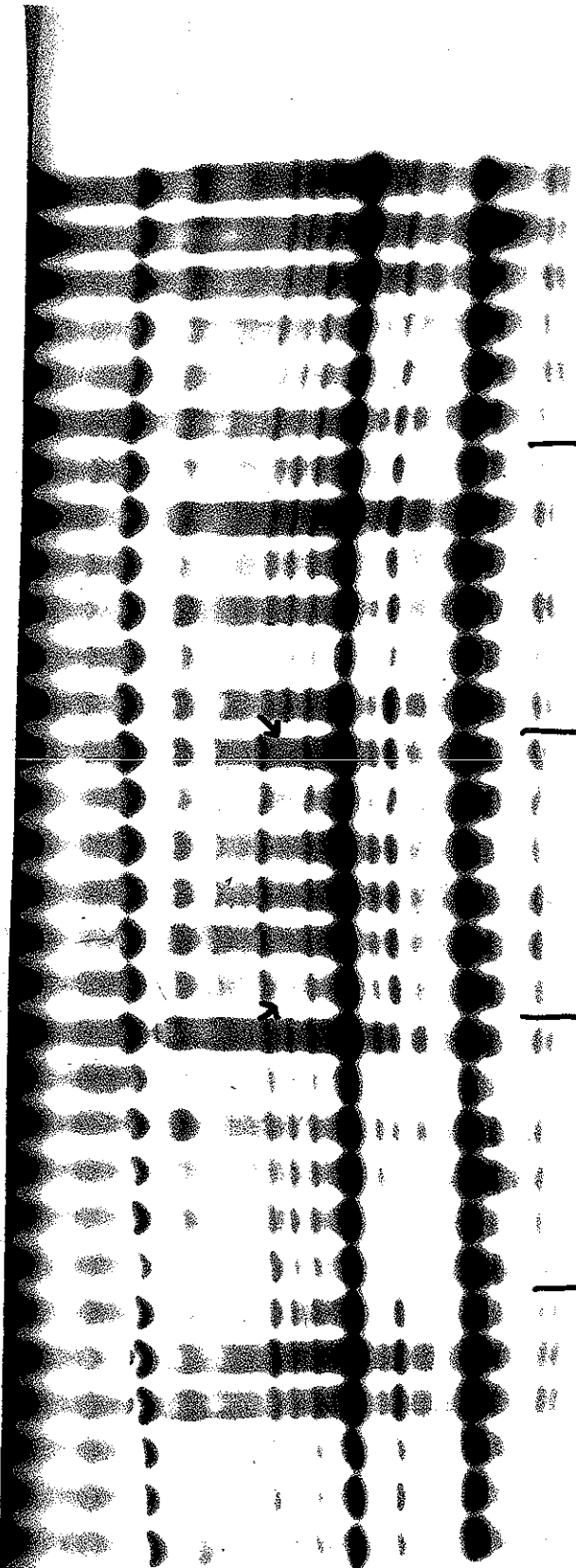
Apple Pie Hill
FS-5080

MCA11

ND91-2735

Amide

51



continued

#2

9800160

North Dakota State Univ.
2/12/98 X-rayed

Phosphoglucomutase
(Pgm)

Hydride cell
FS-5080 amide

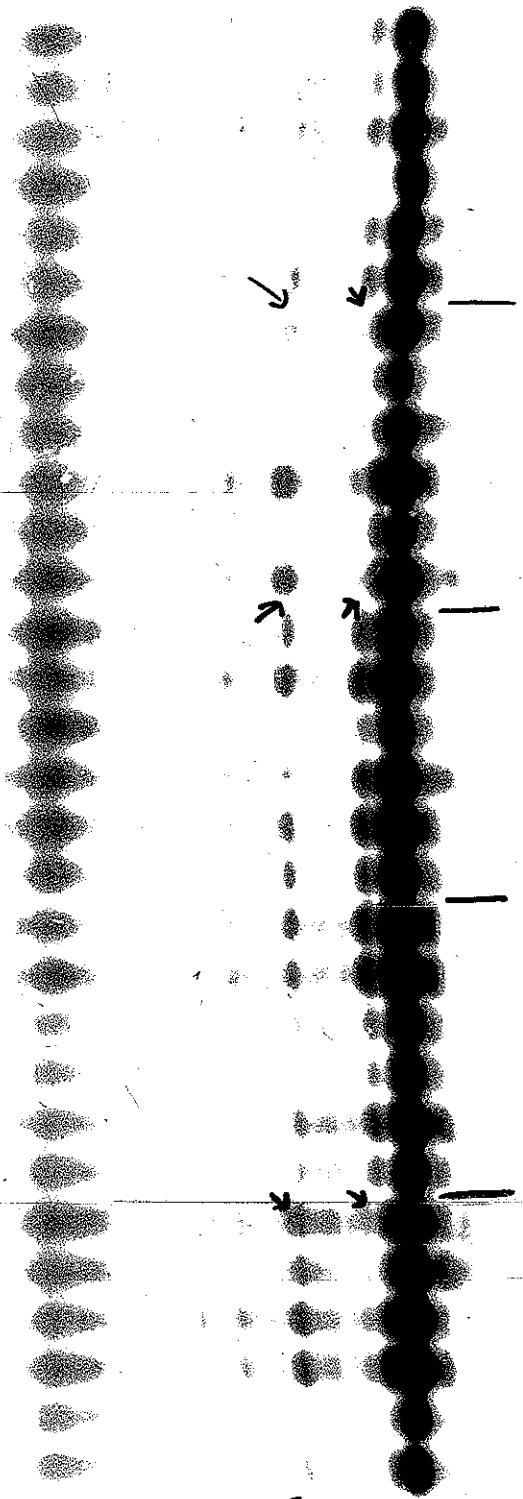
ND91-2735

McCall

M81-18

ND91-2721

5150 X6



#1

amide

9800160

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) NDSU Research Foundation	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER ND91-2721	3. VARIETY NAME 'Jim'
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) C/O Executive Director PO Box 5002 Fargo, ND 58105-5002	5. TELEPHONE (Include area code) (701) 231-8931	6. FAX (Include area code) (701) 231-6661
7. PVPO NUMBER 009800160		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

☒ YES☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

☒ YES☐ NO

10. Is the applicant the original owner?

☐ YES☒ NOIf no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES☐ NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☒ YES☐ NO

If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

See additional Exhibit E Statement on the Basis of the applicant's ownership included in the application.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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EXHIBIT E

Statement of the basis of applicant's ownership

Dr. Theodore Helms, an employee of the North Dakota Agricultural Experiment Station and North Dakota State University, is the plant breeder who developed 'JIM', the soybean cultivar for which Plant Variety Protection is hereby sought. The employee by agreement and because of the condition of the use of the facilities and funds of the North Dakota Agricultural Experiment Station and North Dakota State University has assigned all ownership rights to 'JIM' soybean to the North Dakota Agricultural Experiment Station and North Dakota State University.

North Dakota State University on behalf of the North Dakota Agricultural Experiment Station has assigned ownership to the NDSU Research Foundation. The NDSU Research Foundation is a nonprofit corporation set up to own and manage the intellectual property of North Dakota State University.